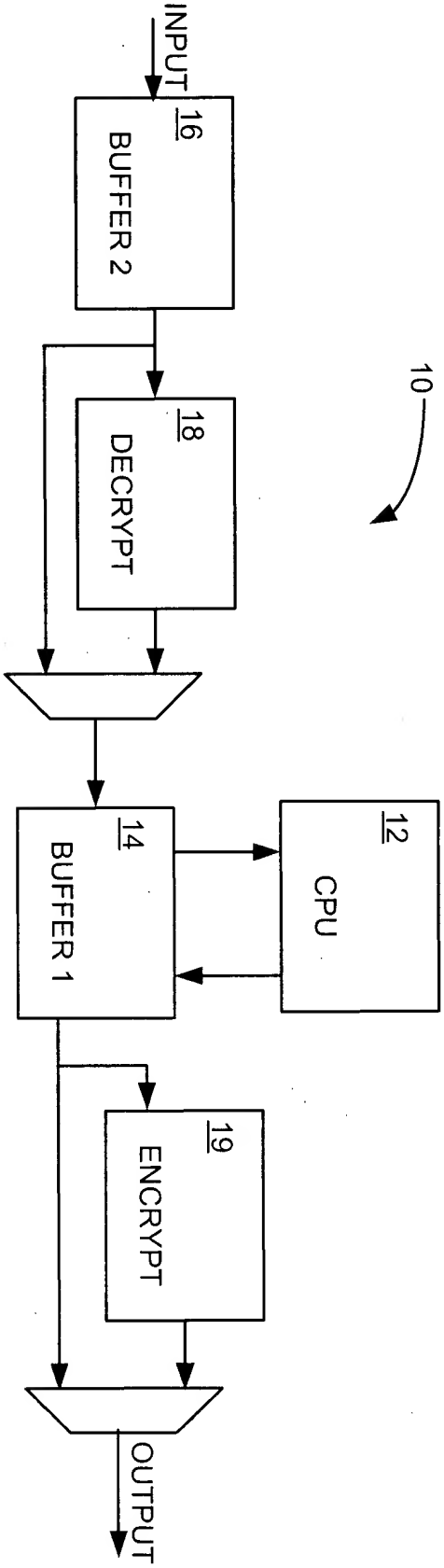
OIPE JC184
OCT 25 2004
PATENT & TRADEMARK OFFICE



PRIOR ART

FIG. 1

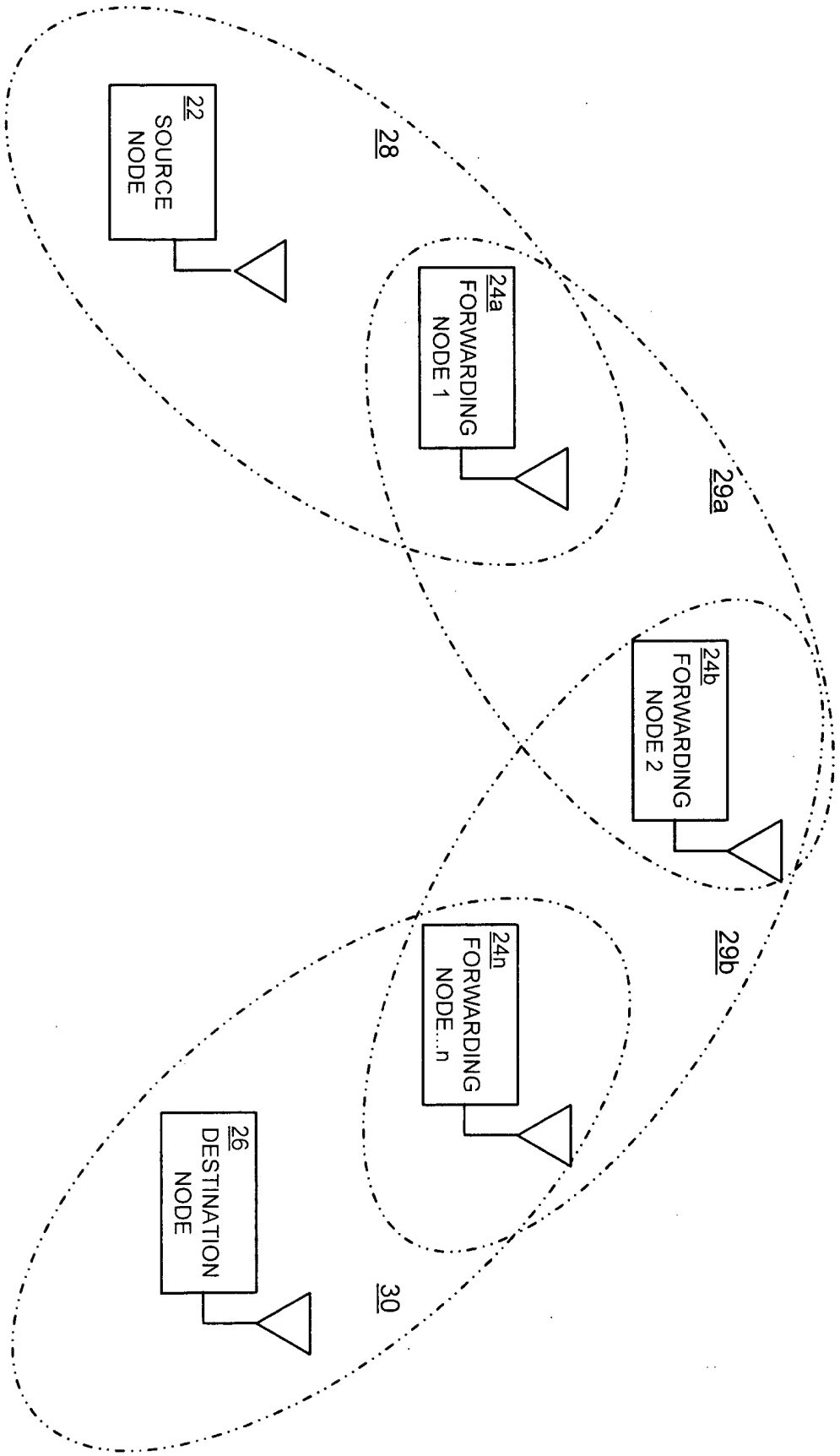
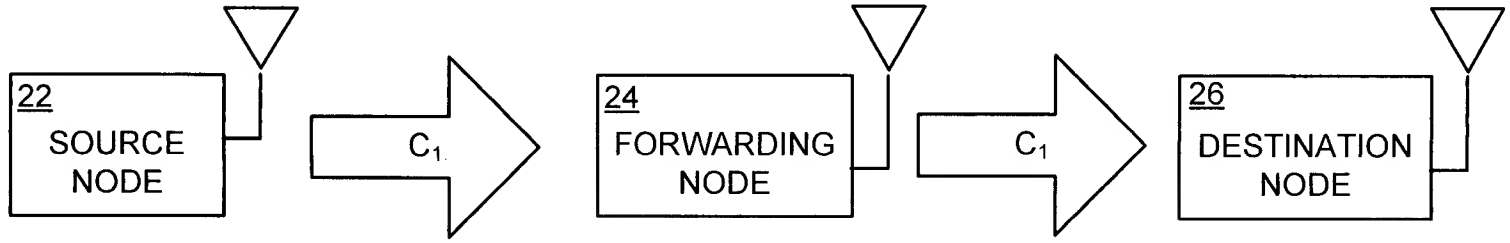

22
SOURCE
NODE
28
24a
FORWARDING
NODE 1
29a
24b
FORWARDING
NODE 2
29b
24n
FORWARDING
NODE...n
26
DESTINATION
NODE
30

FIG. 2



$C_1 = E(P_1, K_{E1})$

$P_2 = D(C_1, K_{D2})$

$C_2 = E(P_2, K_{E2}) = C_1$

$P_1 = D(C_1, K_{D1})$

FIG. 3

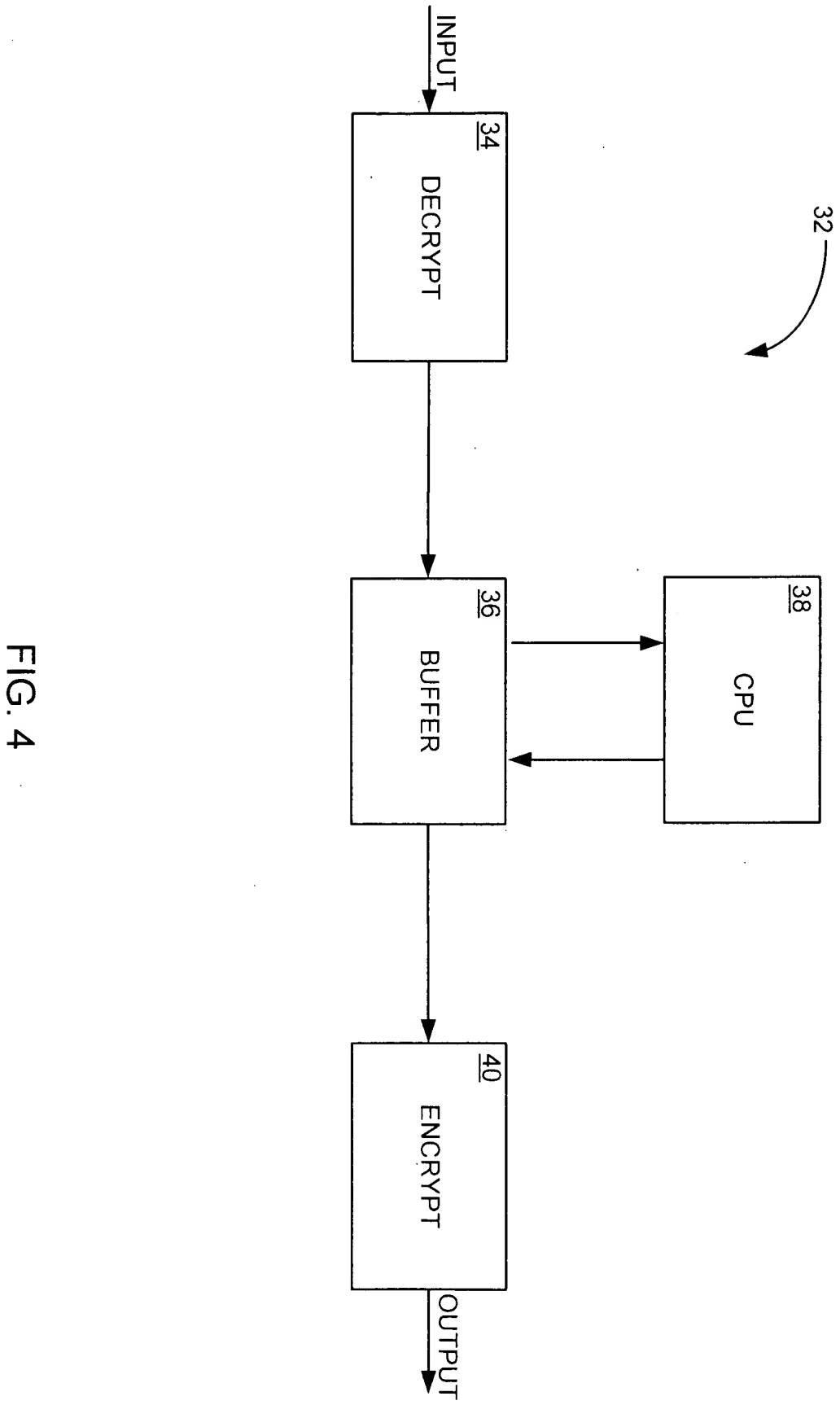


FIG. 4

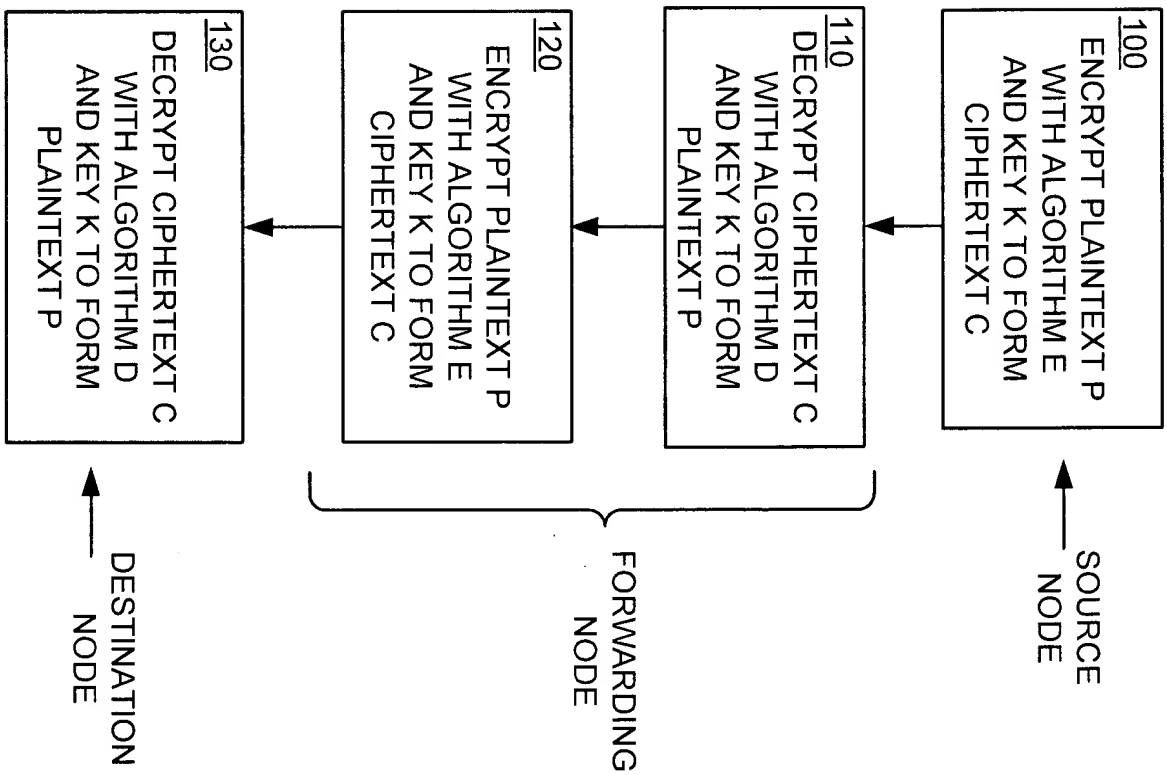

100
ENCRYPT PLAINTEXT P WITH ALGORITHM E AND KEY K TO FORM CIPHERTEXT C
SOURCE NODE
110
DECRYPT CIPHERTEXT C WITH ALGORITHM D AND KEY K TO FORM PLAINTEXT P
120
ENCRYPT PLAINTEXT P WITH ALGORITHM E AND KEY K TO FORM CIPHERTEXT C
FORWARDING NODE
130
DECRYPT CIPHERTEXT C WITH ALGORITHM D AND KEY K TO FORM PLAINTEXT P
DESTINATION NODE

FIG. 5